

ANNEX VII

**LIST OF UV FILTERS WHICH COSMETIC PRODUCTS MAY CONTAIN**

For the purpose of this Directive, UV filters are substances which, contained in cosmetic sunscreen products, are specifically intended to filter certain UV rays in order to protect the skin from certain harmful effects of these rays.

These UV filters may be added to other cosmetic products within the limits and under the conditions laid down in this Annex.

Other UV filters used in cosmetic products solely for the purpose of protecting the product against UV rays are not included in this list.

***Warning which must be printed on the label 'Do not stay too long in the sun, even while using a sunscreen product' (for primary sunscreen products)***

Annex VII - List of UV filters which cosmetic products may contain

**ANNEX VII - PART 1**

**LIST OF PERMITTED UV FILTERS WHICH COSMETIC PRODUCTS MAY CONTAIN**

Reference number	Substance	Maximum Authorised concentration	Other limitations and requirements	Conditions of use and warnings which must be printed on the label
a	b	c	d	e
A28	Menthyl anthranilate	5 %		
A29	Zinc oxide CAS No.1314-13-2	25 % <sup>(2)</sup>	Not to be used in applications that may lead to exposure of the end-user's lungs by inhalation.	

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Reference number	Substance	Maximum Authorised concentration	Other limitations and requirements	Conditions of use and warnings which must be printed on the label
a	b	c	d	e
A29a	Zinc Oxide (nano) CAS No.1314-13-2	25% <sup>(2)</sup>	<p>Not to be used in applications that may lead to exposure of the end-user's lungs by inhalation.</p> <p>Only nanomaterials having the following characteristics are allowed:</p> <ul style="list-style-type: none"> <li>• purity ≥ 96% with wurtzite crystalline structure and physical appearance as clusters that are rod-like, star-like and/or isometric shapes, with impurities consisting only of carbon dioxide and water whilst other impurities are less than 1% in total.</li> <li>• Median diameter of the particle number size distribution D50 (50% of the number below this diameter) &gt; 30 nm and D1 (1% below this size) &gt;20nm.</li> <li>• Water solubility &lt; 50 mg/l.</li> </ul> <p>Coating materials can be used that have been demonstrated to be safe and not to affect the nanoparticle properties related to the behaviour and/or effects</p>	
1	Entry deleted			
2	N,N,N-Trimethyl-4-(2-oxoborn-3-ylidene methyl) anilinium methyl sulphate  CAS No.52793-97-2	6%		
3	Homosalate (INN)  CAS No.118-56-9	10% 7.34%	Face products with the exception of propellant spray products	



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a	b	c	d	e
7	3,3'-(1,4-Phenylenedimethylene)bis(7,7-dimethyl-2-oxo-bicyclo-[2,2,1]hept-1-yl methanesulfonic acid) and its salts  Terephthalylidene CAS No. 92761-26-7 Dicamphor Sulfonic Acid CAS No. 90457-82-2	10% (expressed as acid)		
8	1-(4-Tert-Butylphenyl)-3-(4-methoxyphenyl)propane-1,3-dione/Avobenzone  CAS No. 70356-09-1	5%		
9	alpha-(2-Oxoborn-3-ylidene) toluene-4-sulphonic acid and its salts  CAS No.56039-58-8	6% (expressed as acid)		
10	2-Cyano-3,3-diphenyl acrylic acid, 2-ethylhexyl ester (Octocrylene) <sup>(6)</sup>  CAS No. 6197-30-4	a) 9 %  b) 10 %	a) Propellant spray products  b) Other products	
11	Polymer of N-((2 and 4)-[2-oxoborn-3-ylidene) methyl] benzyl) acrylamide  CAS No. 113783-61-2	6%		
12	Octyl methoxycinnamate  CAS No. 5466-77-3	10%		

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a	b	c	d	e
13	Ethoxylated Ethyl-4-aminobenzoate (PEG-25 PABA)  CAS No. 116242-27-4	10%		
14	Isopentyl-4-methoxycinnamate (Isoamyl p-methoxycinnamate)  CAS No. 71617-10-2	10%		
15	2,4,6-Trianiilino-(p-carbo-2'-ethylhexyl-1'-oxy)-1,3,5-triazine (Octyl triazone)  CAS No. 88122-99-0	5%		
16	Phenol,2-(2H-benzotriazol-2-yl)-4-methyl-6-(2-methyl-3-(1,3,3,3-tetramethyl-1-(trimethylsilyl)oxy)-disiloxanyl)propyl (Drometrizole Trisiloxane)  CAS No.155633-54-8	15%		
17	Benzoic acid, 4,4-((6-(((1,1-dimethylethyl)amino)carbonyl)phenyl)amino)-1,3,5-triazine-2,4-diyl)diimino)bis-,bis-(2-ethylhexyl)ester)  CAS No. 154702-15-5	10%		
18	3-(4'-Methylbenzylidene)-dl-camphor (4-Methylbenzylidene Camphor)  CAS No. 38102-62-4, 36861-47-9	4%		
19	<i>Entry Deleted</i>			

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<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>e</b>
20	2-Ethylhexyl salicylate (Octyl Salicylate)  CAS No. 118-60-5	5%		
21	4-Dimethylaminobenzoate of ethyl-2-hexyl (octyl dimethyl PABA)  CAS No. 21245-02-3	8%		
22	2-Hydroxy-4-methoxybenzophenone-5-sulfonic acid (Benzophenone-4) and its sodium salt (Benzophenone-5)  Benzophenone-4 CAS No. 4065-45-6 Benzophenone-5 CAS No. 6628-37-1	5% (as acid)		
23	2,2'-Methylene-bis(6-(2H-benzotriazol-2-yl)-4-(tetramethyl-butyl)-1,1,3,3-phenol);2,2'-Methylenebis(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol) (Methylene Bis-Benzotriazolyl Tetramethylbutylphenol/MBBT)  CAS No. 103597-45-1	10% <sup>(5)</sup>		

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23a	2,2'-Methylene-bis(6-(2H-benzotriazol-2-yl)-4-(tetramethyl-butyl)-1,1,3,3-phenol);2,2'-Methylenebis(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol) (Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (nano)/MBBT (nano))  CAS No. 103597-45-1	10% <sup>(5)</sup>	Not to be used in applications that may lead to exposure of the end user's lungs by inhalation.  Only nanomaterials having the following characteristics are allowed: <ul style="list-style-type: none"> <li>- Purity ≥ 98.5 %, with 2,2'-methylene-bis-(6(2H-benzotriazol-2-yl)-4-(isooctyl)phenol) isomer fraction not exceeding 1.5 %;</li> <li>- Solubility &lt; 5 ng/L in water at 25 °C;</li> <li>- Partition coefficient (Log Pow): 12.7 at 25 °C;</li> <li>- Uncoated;</li> <li>- Median particle size D50 (50% of number below this diameter): ≥ 120 nm of mass distribution and/or ≥ 60 nm of number size distribution.</li> </ul>	
24	Monosodium salt of 2,2'-(1,4-phenylene)bis)-1H-benzimidazole-4,6-disulphonic acid  CAS No.180898-37-7	10% (of acid)		
25	(1,3,5)-Triazine-2,4-bis-{{[4-(2-ethyl-hexyloxy)-2-hydroxy]-phenyl}-6-(4-methoxyphenyl)}  CAS No.187393-00-6	10%		
26	Dimethicodiethylbenzalmalonate (CAS No. 207574-74-1)	10 %		

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a	b	c	d	e
27	Titanium dioxide <sup>(3)</sup> (CAS No. 13463-67-7/1317-70-0/1317-80-2)	25 % <sup>(4)</sup>	Titanium dioxide in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm, to be used in compliance with Annex III, No [338]. For the product types under letter (c) of column (c) in Annex III, No [338], the maximum concentration in ready for use preparation provided in column (c) of this entry applies.	
27a	Titanium dioxide (nano)  CAS No. 13463-67-7/1317-70-0/1317-80-2	25 % <sup>(4)</sup>	<p>Not to be used in applications that may lead to exposure of the end-user's lungs by inhalation.</p> <p>Only nanomaterials having the following characteristics are allowed:</p> <ul style="list-style-type: none"> <li>- Purity ≥ 99%</li> <li>- Rutile form, or rutile with up to 5% anatase, with crystalline structure and physical appearance as clusters of spherical, needle, or lanceolate shapes,</li> <li>- Median particle size based on number size distribution ≥ 30 nm,</li> <li>- Aspect ratio from 1 to 4.5 and volume specific surface area ≤ 460 m<sup>2</sup>/cm<sup>3</sup>,</li> <li>- Coating materials can be used that have been demonstrated to be safe and not to affect the nanoparticle properties related to the behaviour and/or effects,</li> <li>- Photocatalytic activity ≤ 10% compared with corresponding non-coated or non-doped reference,</li> <li>- Nanoparticles are photostable in the final formulation.</li> </ul>	

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a	b	c	d	e
28	Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, hexylester. INCI Name: Diethylamino hydroxybenzoyl hexyl Benzoate CAS No. 302776-68-7	10 %		
29	1,3,5-Triazine, 2,4,6-tris [1,1'-biphenyl]-4-yl-, including as nanomaterial. INCI Name : Tris-biphenyl triazine Tris-biphenyl triazine (nano) CAS No. 31274-51-8	10%	Not to be used in sprays. Only nanomaterials having the following characteristics are allowed: — median primary particle size > 80 nm; — Purity ≥ 98 %; — Uncoated	
30	3,3-(1,4-Phenylene) bis (5,6-diphenyl- 1,2,4-triazine) CAS No. 55514-22-2	5%	Not to be used in application that may lead to exposure of the end user's lungs by inhalation.'	
31	2-ethoxyethyl (2Z)-2-cyano- 2-[3-(3-methoxypropylamino) cyclohex-2-en-1-ylidene]acetate  Methoxypropylamino Cyclohexenylidene Ethoxyethylcyanoacetate  CAS No. 1419401-88-9	3 %	-- Not to be used in applications that may lead to exposure of the end-user's lungs by inhalation — Do not use with nitrosating agents – Maximum nitrosamine content: 50 µg/kg — Keep in nitrite-free containers'	

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32	1,1'-(1,4-piperazinediyl)bis[1-[2-[4-(diethylamino)-2-hydroxybenzoyl]phenyl]-methanone  Bis-(Diethylaminohydroxybenzoyl Benzoyl) Piperazine  Cas No. 919803-06-8	10% <sup>(7)</sup>		
33	1,1'-(1,4-piperazinediyl)bis[1-[2-[4-(diethylamino)-2-hydroxybenzoyl]phenyl]-methanone  Bis-(Diethylaminohydroxybenzoyl Benzoyl) Piperazine (nano)  Cas No. 919803-06-8	10% <sup>(7)</sup>	Only nanomaterials having the following characteristics are allowed: <ul style="list-style-type: none"> <li>- Purity ≥ 97 %</li> <li>- Median particle size D50 (50 % of the number below this diameter): ≥ 50 nm of number size distribution.</li> </ul> Not to be used in applications that may lead to exposure of the end user's lungs by inhalation.	

1. Not required if concentration is 0.5 % or less and when it is used only for product protection purposes.
2. In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column c.
3. For use of titanium dioxide as a colourant see Annex IV, CI 77891
4. In case of combined use of titanium dioxide and titanium dioxide (nano), the sum shall not exceed the limit given in column c.
5. In case of combined use of Methylene Bis-Benzotriazolyl Tetramethylbutylphenol and Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (nano), the sum shall not exceed the limit given in column c.
6. Benzophenone as an impurity and/or degradation product of Octocrylene shall be kept at trace level.
7. In case of combined use of Bis-(Diethylaminohydroxybenzoyl Benzoyl) Piperazine and Bis-(Diethylaminohydroxybenzoyl Benzoyl) Piperazine (nano), the sum shall not exceed 10 %.